

CLAIMS

1. A disposable absorbent article, such as a baby diaper, an incontinence diaper or the like, comprising a first end portion (1) and a second end portion (2), which portions are intended completely or partly to enclose the user's waist area during use of the article, and an intermediate crotch portion (3), said portions comprising an inner layer (4), which is turned towards the user during use and which is liquid-permeable at least in the crotch portion opposite the user's genitals, a liquid-impermeable outer layer (14), and an absorbent body (21) disposed between said outer and inner layers, said article being formed in the area of the second end portion (2) with mechanical tape fasteners (25,26) intended, upon application of the article, to be detachably interconnected with one or several fastening parts (27) disposed on the outer layer of the first end portion (1) and being complementary to said tape fasteners, characterized in

that the article comprises at least two of said tape fasteners (25,26), which are arranged on the inner layer (4) of the article at opposite side portions (23,24) of said second end portion (2),

20 that the tape fasteners (25,26) have one longitudinal and one transversal extension,

25 that said tape fasteners are permanently joined to the inner layer (4) of the article by means of a producer's bonding face (39) arranged on a first end part (28) of the tape fasteners (25,26),

that a user's bonding face (31) is arranged on the opposite second end part (30) of the tape fasteners, the user's end part,

30 that prior to use of the article, the tape fasteners (25,26) are arranged in a folded storage condition, each one of said tape fasteners being formed with

an odd number of folds (38) and the bonding faces of both said producer's bonding face (39) and said user's bonding face (31) being turned towards the inner layer (4) of the article,

5 that the user's end parts (30) of two opposite tape fasteners (25,26) face one another in said storage condition and that in the storage condition of said article individual fold parts (28 and 29, respectively) are joined to at least one of the other fold parts (28 and 29, respectively) by means of a bond (32), preferably in the form of thermal or ultrasonic welds, said bond being  
10 breakable in order to establish the position of use of said tape fasteners.

2. An article as claimed in claim 1, characterized in that in  
their condition of storage, the tape fasteners (25,26) are arranged in their  
entirety on the inner layer (4), with the laterally outermost end edges (38) of  
15 the tape fasteners being located interiorly of the lateral edges of said lateral  
portions (23,24).

3. An article as claimed in claim 1 or 2, characterized in  
that in the condition of storage of the article, the mechanical tape fasteners  
20 (25,26) comprise one fold (38) only and in that the latter forms the laterally  
outermost end edge of the tape fastener in said storage condition, that the  
tape fasteners comprise a middle part (29), which by means of said  
breakable bond (32) is connected to the first end part (28) and which covers  
the latter, and in that when the user's bonding face (31) is in said folded  
25 storage condition, the opposite end part (30) is located laterally interiorly of  
the first end part (28).

4. An article as claimed in claim 3, characterized in that  
the user's bonding face (31) is in the form of hooks of a hook-and-loop  
30 fastener and in that the complementary fastening part (27) forms the other  
half of the hook-and-loop fastener and is made from a material, in which the

hooks are able to fasten, said material being formed with apertures, loops or fibre filaments for co-operation with the hooks.

5. An article as claimed in claim 4, characterized in  
5 that the inner layer (4) of the article comprises fibres in which the hooks of the user's bonding face (31) fasten to form a weak bond relatively to the hook-and-loop fastener and said bond between the middle part and the first end part.

10 6. An article as claimed in any one of claims 3-5, characterized in  
that the outermost end part (33) of the mechanical tape fastener (25) is coated with a pressure-sensitive adhesive providing a weak adhesion force.

15 7. An article as claimed in any one of the preceding claims, characterized in  
that said breakable bond (32) is designed to ensure that a force in the range of 0,2-2N, preferably in the range of 0.5-1.5N, is required to separate from one another joined-together tape-fastener strips having a width of 40mm.

20 8. An article as claimed in any one of the preceding claims, characterized in  
that the bond (32) is in the form of a pattern of points or lines, and in that the bond is breakable without damage to the tape fastener (25).

25 9. An article as claimed in any one of the preceding claims, characterized in  
that the mechanical tape fasteners (25,26) have a width of between 30 and 10 mm.

30 10. An article as claimed in any one of the preceding claims, characterized in

that the mechanical tape fasteners comprise at least one elastic part (29) disposed between the two end parts (28,30), said elastic part arranged to stretch upon occurrence of load during use of the article.

5 11. An article as claimed in any one of claims 1-9,  
characterized in

that the mechanical tape fasteners (25, 26) do not stretch upon occurrence of load during use of the article.